Water Trap Housing Update for NM4 and VA3000 Series

INSTALLATION PROCEDURE

This procedure provides instructions for updating earlier Narkomed 4 and Vitalert 3000 Series water trap housings and their internal connections, to reflect current design.

1. Remove AC power from the machine (or monitor).

2. Disconnect all items from the patient interface panel on the left side of the monitor housing.

3. Remove the disposable reservoir from the water trap housing.

4. Remove the air filter and its PVC sample line from the Luer fittings on the water trap housing.

5. Carefully remove the monitor housing cover (VA3000 illustrated in Figure 1).

Vitalert 3000:

6. Inspect the water trap housing and determine whether it has a variable flow restrictor.

   If the housing does not have a variable restrictor, replace the entire housing with part number S010230. Refer to Service Procedure SP00145.

7. If the housing does have a variable flow restrictor, inspect the tubing between the top right brass fitting (see Figure 2) and the upper L-fitting, and determine whether it has a brass flow restrictor.

   Skip the next two steps if there is no restrictor in this line.

8. Remove the existing tubing between the top right brass fitting and the upper L-fitting, and replace it with a 5 in. length of tubing (P/N ML08003).

9. Remove the four screws securing the water trap housing to the chassis to provide access to the tubing connections.

10. Remove the hose that connects the lower L-fitting to the solenoid. Assemble a 1 in. length of tubing (P/N ML08003), #34 flow restrictor (P/N 4111758-004), and a 4½ in. length of tubing. Connect the other end of the 4½ in. length of tubing to the solenoid.

11. Remove the lower L-fitting, and remove the existing Luer fitting from the lower position in the water trap housing.

INSTALLATION PROCEDURE (continued)

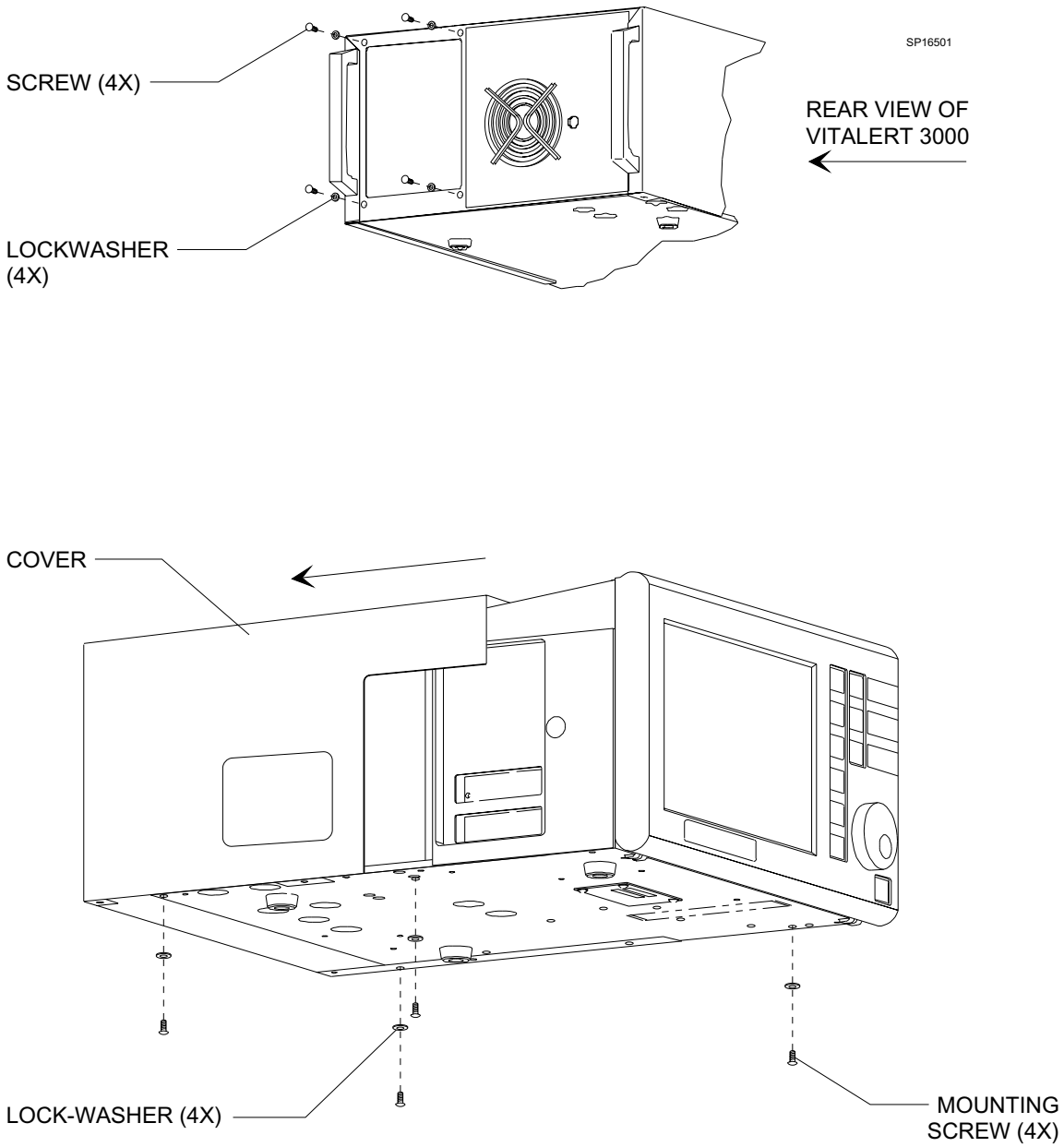

Figure 1: REMOVAL OF VA3000 COVER

INSTALLATION PROCEDURE (continued)

12. Install the new Luer (M) fitting (P/N 4113335) in the lower position in the water trap housing.

13. Apply a small amount of Loctite #425 (blue) to the threads of the new L-fitting (P/N 4110173), and thread the fitting into the back of the Luer fitting until snug. Orient the fitting as shown in Figure 2. DO NOT overtighten the fitting.

14. Connect the tubing from the solenoid to the L-fitting as shown in Figure 2.

15. Secure the water trap housing to the chassis with the four screws that were previously removed.

    Proceed to Step 24.

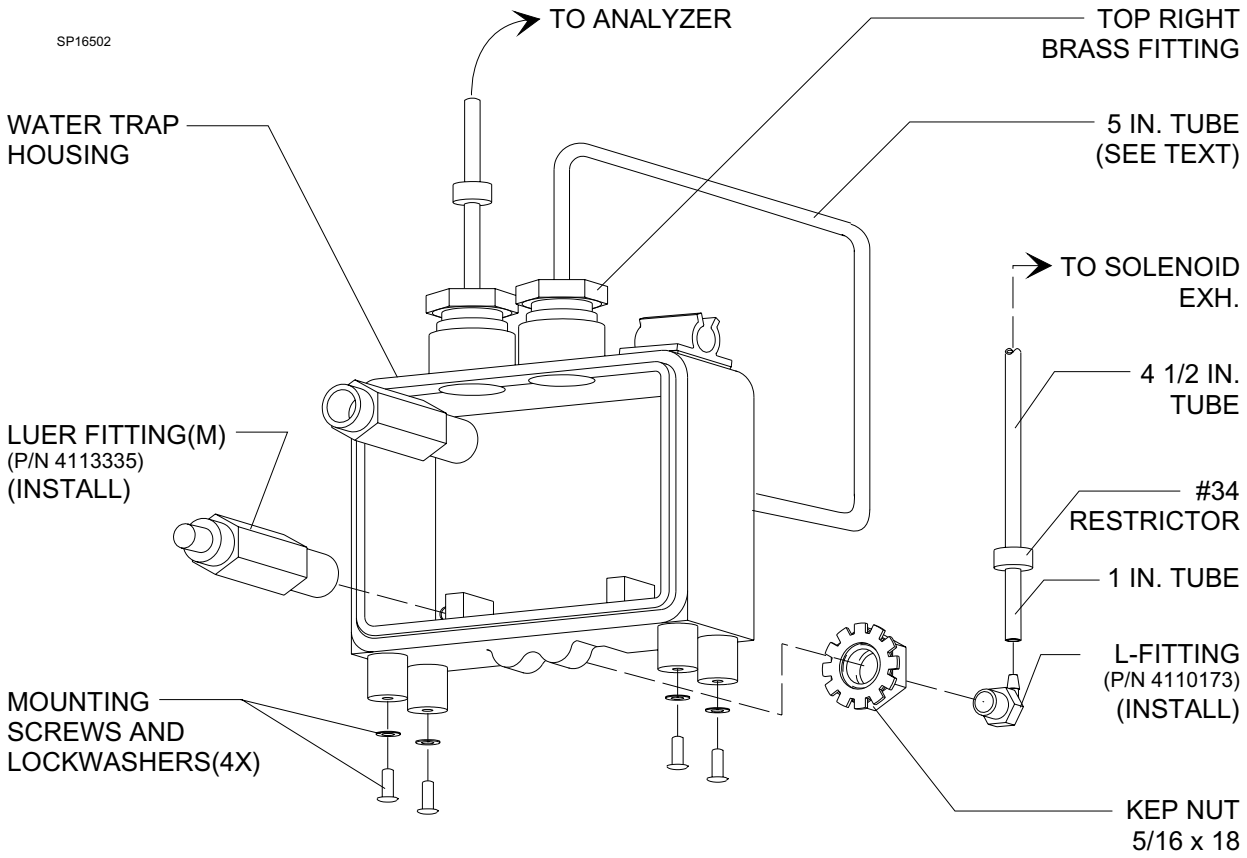

Figure 2: VA3000 WATER TRAP HOUSING ASSEMBLY DETAILS

INSTALLATION PROCEDURE (continued)

Narkomed 4:

16. Remove the four screws securing the water trap housing to the chassis to provide access to the tubing connections.

17. Remove the existing fitting that is installed in the lower left hole in the water trap housing.

18. Enlarge the hole to approx. 0.343 in. dia. (11/32 drill). Vacuum all drill chips from the housing and surrounding area.

19. Install the new Luer (M) fitting (P/N 4113335) in the housing, with a 5/16-18 kep nut (P/N HW55007).

20. Apply a small amount of Loctite #425 (blue) to the threads of the new L-fitting (P/N 4110173), and thread the fitting into the back of the Luer fitting until snug. Orient the fitting as shown in Figure 3. DO NOT overtighten the fittings.

21. Connect the tubing from the solenoid to the new L-fitting. There should be a #34 flow restrictor in this line as shown in Figure 3.

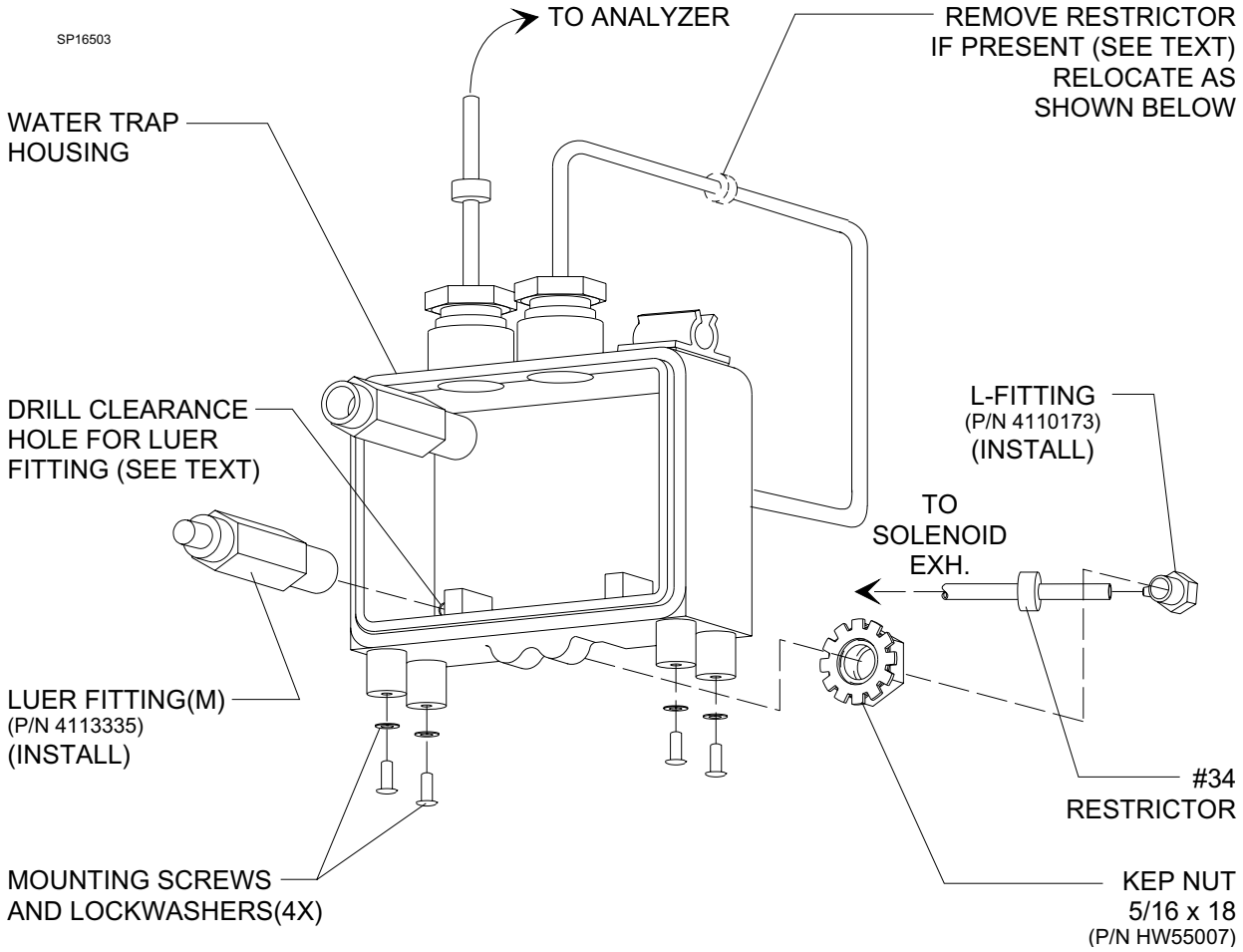
SP16503
TO ANALYZER
REMOVE RESTRICTOR IF PRESENT (SEE TEXT) RELOCATE AS SHOWN BELOW
WATER TRAP HOUSING
DRILL CLEARANCE HOLE FOR LUER FITTING (SEE TEXT)
L-FITTING (P/N 4110173) (INSTALL)
TO SOLENOID EXH.
LUER FITTING(M) (P/N 4113335) (INSTALL)
#34 RESTRICTOR
MOUNTING SCREWS AND LOCKWASHERS(4X)
KEP NUT 5/16 x 18 (P/N HW55007)

Figure 3: NARKOMED 4 WATER TRAP HOUSING ASSEMBLY DETAILS

INSTALLATION PROCEDURE (continued)

22. Inspect the tubing between the top right brass fitting (see Figure 3) and the upper L-fitting, and determine whether it has a brass flow restrictor.

    If a restrictor is present in this line, transfer it to the tubing connected to the lower L-fitting: cut the tubing one inch from the L-fitting and insert the restrictor. See Figure 3.

    Remove the tubing pieces from the previous restrictor location, and replace them with a 4½ in. length of P/N ML08003.

23. Secure the water trap housing to the chassis with the four screws that were previously removed.

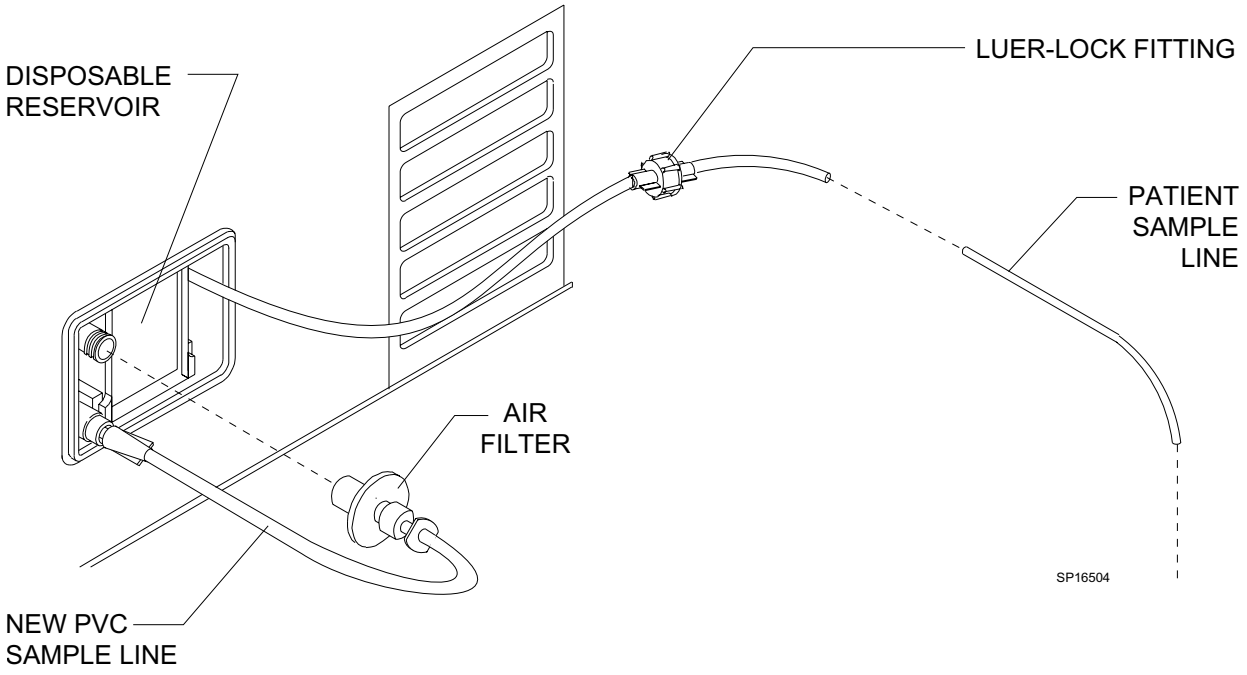

Figure 4: INSTALLATION OF AIR FILTER AND NEW PVC SAMPLE LINE

24. Reinstall the monitor housing cover.

25. Install the air filter and the new PVC sample line (P/N 4113334) as shown in Figure 4. Do not use the original PVC sample line.

26. Reinstall the disposable water trap.

27. Restore AC power to the machine (or monitor).

28. Verify the gas sample line flow rate settings and the gas analyzer calibration in accordance with the procedures given in the appropriate Service Manual.

29. Perform a complete PMS procedure on the machine (or monitor).

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